ABSTRACT

A traffic manager determines the geographic locations of end points on Internet traffic and routes the traffic in the most efficient manner. A set of analyzers may be disposed to analyze the network, such as the geographic locations of nodes in the network, latency times and speed between nodes, available bandwidth, etc. The traffic manager obtains this intelligence on the network from the analyzers and routes traffic accordingly. The traffic manager considers not only the most direct route but also considers the speed, available bandwidth, and reliability of the routing. The traffic manager can be disposed any within the network, such as part of DNS service or as an HTTP redirect. Thus, the traffic manager can be implemented in routers, switches, sprinklers, load balancers, DNS server, or other servers. In modeling the network traffic and behavior, the traffic manager may simply portions of the network and employ probability and statistics in approximating the network behavior.

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